



Missouri Department of Transportation  
Bridge Inventory and Inspection System  
Structural Inventory & Appraisal Sheet

March 10, 2022  
12:01:26pm

COUNTY : IRON      BRIDGE : G0633      REVIEW STATUS : APPROVED      NBI STATUS : P  
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT      RUN DATE : 3/8/2022      SUBMITTAL YEAR : 2021

| GENERAL STRUCTURE INFORMATION  |                         |                          | ROUTE DESIGNATION INFORMATION   |                             |                           |
|--------------------------------|-------------------------|--------------------------|---------------------------------|-----------------------------|---------------------------|
| 1                              | State                   | MISSOURI                 | 5A                              | Record Type                 | ROUTE CARRIED 'ON' STRUCT |
| 2                              | District                | SE                       | 5B                              | Route Signing Prefix        | MO                        |
| 3                              | County                  | IRON                     | 5C                              | Designated Level of Service | MAINLINE                  |
| 8                              | Federal ID No.          | 4699                     | 5D                              | Route Number                | 00049                     |
| 27                             | Year Built              | 1924                     | 5E                              | Directional Suffix          | NOT APPLICABLE            |
| 106                            | Year Reconstructed      | 0                        | 7                               | Facility Carried            | MO 49 S                   |
| 42A                            | Type of Service On      | HIGHWAY                  | 12                              | Base Hwy. Network           | YES                       |
| 21                             | Structure Maintenance   | STATE HIGHWAY AGENCY     | 13A                             | LRS Inventory Route No.     | 0000001052                |
| 22                             | Structure Owner         | STATE HIGHWAY AGENCY     | 13B                             | Subroute No.                | 00                        |
| 33                             | Br. Median Code         | NO MEDIAN                | 20                              | Toll Status                 | ON FREE ROAD              |
| 37                             | Historical Significance | HISTORICAL SIGNIF UNKNWN | 26                              | Functional Classification   | 06-RURAL MINOR ARTERIAL   |
| 101                            | Parallel Struc Desg     | NONE EXISTS              | 28A                             | Lanes on Structure          | 02                        |
| 103                            | Temporary Structure     | NOT TEMPORARY            | 100                             | STRAHNET Designation        | RTE NOT A DEFENSE HWY     |
| 112                            | NBIS Bridge Length      | YES                      | 104                             | National Highway System     | NOT ON NHS                |
|                                |                         |                          | 105                             | Federal Lands Highway       | NOT APPLICABLE            |
|                                |                         |                          | 110                             | Designated Nat. Network     | NO                        |
| STRUCTURE LOCATION INFORMATION |                         |                          | STRUCTURE TRAFFIC INFORMATION   |                             |                           |
| 4                              | Place                   | UNION                    | 29                              | AADT                        | 1082                      |
|                                | Code                    | 74698                    | 30                              | AADT Year                   | 2021                      |
| 9                              | Location                | S 1 T 30 N R 3 E         | 102                             | Direction of Traffic        | 2-WAY TRAFFIC             |
| 11                             | Milepoint               | 72.90 miles              | 109                             | AADT Truck Percent          | 12%                       |
| 16                             | Latitude                | 37 D 18 M 38 S           | 114                             | Future AADT                 | 1623                      |
| 17                             | Longitude               | 90 D 39 M 48 S           | 115                             | Future AADT Year            | 2041                      |
| UNDERRECORD INFORMATION        |                         |                          | STRUCTURE GEOMETRIC INFORMATION |                             |                           |
| 6                              | Features Intersected    | BR                       | 10                              | Inventory Rte. Vert. Clear  | 99 Ft. 99 In.             |
| 42B                            | Type of Service Under   | WATERWAY                 | 19                              | By pass Detour Length       | 39.68 miles               |
| 28B                            | Lanes Under Structure   | 00                       | 32                              | Approach Roadway Width      | 21 Ft. 12 In.             |
| 54A                            | Vert. Clearance Ref.    | N/A                      | 34                              | Skew                        | 28.00 Degrees             |
| 54B                            | Vert. Clearance         | 0 Ft. 0 In.              | 35                              | Struct. Flared              | NO                        |
| 55A                            | Rt. Lat Clear Ref.      | N/A                      | 47                              | Total Horiz. Clear          | 20 Ft. 0 In.              |
| 55B                            | Rt. Lat Clearance       | 0 Ft. 0 In.              | 48                              | Maximum Span Length         | 60 Ft. 0 In.              |
| 56                             | Left Lat Clearance      | 0 Ft. 0 In.              | 49                              | Structure Length            | 60 Ft. 0 In.              |
| 38                             | Navigation Control      | PERMIT NOT REQ           | 50A                             | Left Curb/Sidewalk Width    | 0 Ft. 0 In.               |
| 39                             | Nav Vertical Clear      | 0 Ft. 0 In.              | 50B                             | Right Curb/Sidewalk Width   | 0 Ft. 0 In.               |
| 40                             | Nav Horizontal Clear    | 0 Ft. 0 In.              | 51                              | Curb to Curb Br. Width      | 20 Ft. 0 In.              |
| 111                            | Nav. Pier Protection    |                          | 52                              | Deck Width (Out-Out)        | 20 Ft. 12 In.             |
| 116                            | Nav. Cl. Vert. Clear    |                          | 53                              | Vert. Clearance Over Deck   | 99 Ft. 99 In.             |

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| LOAD RATING AND POSTING INFORMATION |                             |                           | MATERIAL/CONSTRUCTION INFORMATION |                                          |                |
|-------------------------------------|-----------------------------|---------------------------|-----------------------------------|------------------------------------------|----------------|
| 31                                  | Design Load                 | H 15                      | 43A                               | Main Struc. Mat type                     | STEEL          |
| 41                                  | Structure Status            | A - OPEN NO RESTRICTIONS  | 43B                               | Main struc Constr. Type                  | TRUSS - THRU   |
| 63                                  | Oper. Rating Meth.          | ALLOWABLE STRESS          | 45                                | # of Main Spans                          | 1              |
| 64                                  | Operating Rating            | 27 Tons.                  | 44A                               | Appr Struc. Mat type                     |                |
| 65                                  | Inventory Rating Meth       | ALLOWABLE STRESS          | 44B                               | Appr Struc. Cnstr. type                  |                |
| 66                                  | Inventory Rating            | 19 Tons.                  | 46                                | # of Approach Span                       | 0              |
| 70                                  | Bridge Posting Code         | =>LEGAL LOADS             | 107                               | Deck Mat/Constr.                         | 1 CONCRETE CIP |
| PROPOSED IMPROVEMENT INFORMATION    |                             |                           | 108A                              | Wear Surf Mat/Constr.                    | 6 BITUMINOUS   |
| Sufficiency Rating 18.6 Percent     |                             |                           | 108B                              | Membrane Mat/Constr.                     | 0 NONE         |
| Deficiency Rating STRUCTURAL        |                             |                           | 108C                              | Deck Protect Mat/Constr.                 | 0 NONE         |
| Funding Eligibility FULL            |                             |                           | CONDITION RATING INFORMATION      |                                          |                |
| 75A                                 | Proposed Work               | REPLACEMENT SUBSTND LOAD  | 58                                | Deck Cond. Rating                        | 5              |
| 75B                                 | Work Done By                | Contract                  | 59                                | Superstructure Cond. Rating              | 4              |
| 76                                  | New Struc Length            | 0 Ft. 0 In.               | 60                                | Substructure Cond. Rating                | 6              |
| 94                                  | Struc Improve Cost          | \$ 285,000                | 61                                | Channel /Channel Protection Cond. Rating | 6              |
| 95                                  | Roadway Improve Cost        | \$ 29,000                 | 62                                | Culvert Cond. Rating                     | N              |
| 96                                  | Total Project Cost          | \$ 428,000                | INSPECTION INFORMATION            |                                          |                |
| 97                                  | Year of Cost Estimates      | 2022                      | 90                                | Gen. Insp Date                           | 8 / 21         |
| APPRAISAL RATING INFORMATION        |                             |                           | 91                                | Gen. Insp. Frequency                     | 24 Months      |
| 36A                                 | Br. Rail App. Rating        | DOES NOT MEET ACCEPT STND | 92A                               | Frac. Critical Inspection                | Y Months 24    |
| 36B                                 | Transition Rail App. Rating | DOES NOT MEET ACCEPT STND | 93A                               | Frac. Critical Insp. Date                | 8 / 21         |
| 36C                                 | Approach Rail App. Rating   | DOES NOT MEET ACCEPT STND | 92B                               | Underwater Inspection                    | N Months       |
| 36D                                 | Rail End Treat. App. Rating | DOES NOT MEET ACCEPT STND | 93B                               | Underwater Insp. Date                    |                |
| 67                                  | Struc Eval App. Rating      | 4                         | 92C                               | Special Inspection                       | N Months       |
| 68                                  | Deck Geometry App. Rating   | 2                         | 93C                               | Special Inspection Date                  |                |
| 69                                  | Underclearance App. Rating  | N                         | BORDER BRIDGE INFORMATION         |                                          |                |
| 71                                  | Waterway Adeq. App. Rating  | 6                         | 98                                | Neighboring State Code                   |                |
| 72                                  | Approach Road App. Rating   | 6                         | 98B                               | Neighboring State % Respon               |                |
| 113                                 | Scour Assess App. Rating    | 8                         | 99                                | Neighboring State Struc. No.             |                |
| APPROVED POSTING INFORMATION        |                             |                           | FIELD POSTING INFORMATION         |                                          |                |
| Approved Posting Category S-1       |                             |                           | Field Posting Category S-1        |                                          |                |
| Ton1 Ton2 Ton3                      |                             |                           | Ton1 Ton2 Ton3                    |                                          |                |
| Tonnage Values for Posting Sign     |                             |                           | Tonnage Values for Posting Sign   |                                          |                |
| General Text for Posting Sign       |                             |                           | General Text for Posting Sign     |                                          |                |
| NO POSTING REQUIRED                 |                             |                           | NO POSTING REQUIRED               |                                          |                |

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